

**Michigan Department of Education
Office of Career and Technical Education
Teacher Certification Requirements by Career Cluster and CIP Code**

* = Not available for New Program Applications

Certification Requirements

Agriculture, Food & Natural Resources		
01.0000	Agriculture, Agricultural Operations and Related Sciences	IOC/OEC or Prov/Prof with HX & VA + IOC/OEC
01.0601	Applied Horticulture and Horticultural Operations	IOC/OEC or Prov/Prof with HX & VA + IOC/OEC
01.0903	Animal Health & Veterinary Sciences	IOC/OEC or Prov/Prof with HX & VA + IOC/OEC
03.0000	Natural Resources and Conservation	IOC/OEC or Prov/Prof with HX & VA + IOC/OEC
26.1201	Biotechnology	IOC/OEC or Prov/Prof with HX & VA + IOC/OEC
Architecture & Construction		
15.1301	Drafting & Design Technology/Architectural	IOC/OEC or Prov/Prof with VT + IOC/OEC
19.0605	* Home Furnishings Equipment Installers and Consultants	IOC/OEC or Prov/Prof with VT + IOC/OEC
46.0000	Construction Trades	IOC/OEC or Prov/Prof with VT + IOC/OEC
46.0301	Electrical and Power Transmission Installation	IOC/OEC or Prov/Prof with VT + IOC/OEC
46.0503	Plumbing Technology	IOC/OEC
47.0201	Heating, Air Conditioning, Ventilation and Refrigeration	IOC/OEC or Prov/Prof with VT + IOC/OEC
Arts, A/V Technology & Communications		
10.0202	Radio & Television Broadcasting Technology	IOC/OEC or Prov/Prof with VT + IOC/OEC
10.0301	Graphics and Printing Technology and Communications	IOC/OEC or Prov/Prof with VT + IOC/OEC
19.0906	* Fashion Design	IOC/OEC or Prov/Prof with VT + IOC/OEC
50.0101	Visual & Performing Arts	IOC/OEC or Prov/Prof with VT + IOC/OEC
Business, Management & Administration		
52.0299	Business Administration Management and Operations	IOC/OEC or Prov/Prof with GQ and/or GX & VB + IOC/OEC
Education & Training		
13.0000	Education General	Prof with VG + IOC/OEC
Family & Consumer Sciences (Not a Career Cluster)		
19.0000	* Family and Consumer Sciences	Prov/Prof with KH & VH + IOC/OEC
Finance		
52.0800	Finance and Financial Management Services	IOC/OEC or Prov/Prof with GQ and/or GX & VB + IOC/OEC
52.1701	Insurance	IOC/OEC or Prov/Prof with GQ and/or GX & VB + IOC/OEC
Government & Public Administration		
28.0301	Army (JROTC)	DOD
Health Science		
26.0102	Biotechnology Medical Sciences	IOC/OEC or Prov/Prof with VS + IOC/OEC
51.0000	Therapeutic Services	IOC/OEC or Prov/Prof with VS + IOC/OEC
51.0707	Health Informatics	IOC/OEC or Prov/Prof with VS + IOC/OEC
51.1000	Diagnostic Services	IOC/OEC or Prov/Prof with VS + IOC/OEC
Hospitality & Tourism		
12.0500	Cooking and Related Culinary Arts, General	IOC/OEC or Prov/Prof with VZ or VH with Food Management + IOC/OEC
Human Services		
12.0400	Cosmetology	IOC/OEC or Prov/Prof with VE + IOC/OEC
Information Technology		
11.0201	Computer Programming/Programmer	IOC/OEC or Prov/Prof with GQ and/or GX & VB + IOC/OEC
11.0801	Digital/Multimedia and Information Resources Design	IOC/OEC or Prov/Prof with GQ and/or GX & VB + IOC/OEC
11.0901	Computer Systems Networking and Telecommunications	IOC/OEC or Prov/Prof with GQ and/or GX & VB + IOC/OEC
11.1001	System Administration/Administrator	IOC/OEC or Prov/Prof with GQ and/or GX & VB + IOC/OEC
Law, Public Safety, Corrections & Security Career Cluster		
43.0100	Public Safety/Protective Services	IOC/OEC or Prov/Prof with VF + IOC/OEC
Manufacturing		
47.0101	Electrical/Electronics Equipment Installation and Repair General	IOC/OEC or Prov/Prof with VT + IOC/OEC
48.0501	Machine Tool Technology/Machinest	IOC/OEC or Prov/Prof with VT + IOC/OEC
48.0508	Welding, Brazing and Soldering	IOC/OEC or Prov/Prof with VT + IOC/OEC
48.0701	Woodworking General	IOC/OEC or Prov/Prof with VT + IOC/OEC
Marketing		
52.1999	Specialized Merchandising, Sales, and Marketing Operations, Other	IOC/OEC or Prov/Prof with GQ & VM, GX & VM, GM & VM (VM formerly VD) + IOC/OEC
Science, Technology, Engineering and Mathematics		
14.4201	Mechatronics	IOC/OEC
15.0000	Engineering Technology	IOC/OEC
15.1306	Mechanical Drafting	IOC/OEC or Prov/Prof with VT + IOC/OEC
Transportation, Distribution & Logistics		
47.0399	Heavy/Industrial Equipment Maintenance Technologies	IOC/OEC or Prov/Prof with VT + IOC/OEC
47.0603	Collision Repair Technician (ASE Certified)	IOC/OEC or Prov/Prof with VT + IOC/OEC
47.0604	Automobile Technician (ASE Certified)	IOC/OEC or Prov/Prof with VT + IOC/OEC
47.0606	Small Engine & Related Equipment Repair	IOC/OEC or Prov/Prof with VT + IOC/OEC
47.0607	Airframe Technology	IOC/OEC or Prov/Prof with VT + IOC/OEC
47.0608	Power Plant Technology (Aircraft)	IOC/OEC or Prov/Prof with VT + IOC/OEC
47.0609	Avionics Maintenance Technology	IOC/OEC or Prov/Prof with VT + IOC/OEC
47.0613	Medium/Heavy Truck Technician (ASE Certified)	IOC/OEC or Prov/Prof with VT + IOC/OEC
49.0101	Aeronautics/Aviation/Aerospace Science & Technology	IOC/OEC or Prov/Prof with VT + IOC/OEC

IOC = Interim Occupational Certificate in Related CIP Code

OEC = Occupational Education Certificate

When placing certified teachers in state-approved CTE programs, districts must look at the occupational certificate to determine proper placement. V codes on general education certificates are indicators that the certificate holder also holds an IOC or OEC. V codes are not endorsements. For further clarification contact Debbie Ryan, Office of Professional Preparation Services, at RyanD@michigan.gov, or call 517-335-0585.